

WHAT IS CLAIMED IS:

1. A constant force socket comprising:

a socket body, said socket body having an inner hole axially extended to one
5 end thereof and a set of teeth radially disposed around the border inside said inner
hole;

a ratchet wheel mounted in the inner hole inside said socket body, said
ratchet wheel having a tool hole disposed at one side thereof and adapted to receive a
torsion tool to be inserted into said inner hole of said socket body, and a set of teeth
10 radially disposed at an opposite side thereof and adapted to engage the teeth of said
socket body;

a screw member fastened to the inner hole of said socket body; and

spring means mounted in the inner hole inside said socket body and stopped
between said screw member and said ratchet wheel to force said ratchet wheel into
15 engagement with the teeth of said socket body.

2. The constant force socket as claimed in claim 1, wherein said socket body
has a coupling hole axially extended to and opposite end thereof.

3. The constant force socket as claimed in claim 1, wherein the teeth of said
socket body and the teeth of said ratchet wheel each have a first sidewall and a second
20 sidewall disposed at two sides and sloping at different angles.

4. The constant force socket as claimed in claim 1, wherein the teeth of said
socket body and the teeth of said ratchet wheel each have a first sidewall sloping at an
angle and a second sidewall disposed in vertical.

5. The constant force socket as claimed in claim 1, wherein said spring
25 means is a compression spring.

6. The constant force socket as claimed in claim 1, wherein said socket body has an inner thread disposed near an outer side inside said inner hole; said screw member has an outer thread threaded into the inner thread of said socket body.

7. The constant force socket as claimed in claim 1, wherein said screw
5 member is fastened to said inner hole of said socket body and rotatable in said inner hole relative to said socket body to adjust the spring force of said spring means.

8. The constant force socket as claimed in claim 1, wherein said screw member is fastened to said inner hole of said socket body to impart a predetermined pressure to said spring means against said ratchet wheel and then locked to said socket
10 body.